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(71)Applicant : ASAHI GLASS CO LTD

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(72)Inventor : YAMAMOTO MINEKO
USUI HIROSHI
OSAKI YASUKO
MANABE TSUNEZO

(54) NEAR-INFRARED-ABSORBING POWDER

(57) Abstract:

PURPOSE: To obtain a near-infrared-absorbing powder improved in dispersibility in a resin solution without detriment to the near-infrared-absorbing performance by surface-treating a crude near-infrared-absorbing powder with a specified compound to impart thereto the property of absorbing light of a specified wavelength region.

CONSTITUTION: A crude near-infrared-absorbing powder comprising 5-45wt.% (in terms of FeO) Fe and 30-85wt.% (in terms of P₂O₅) phosphoric acid, desirably having a CuO/P₂O₅ molar ratio of 0.05-4 and desirably having a particle diameter of 100μm or below is surface-treated with an aluminum compound, desirably aluminum alkoxide and/or acetylacetonatoaluminum to impart thereto the property of absorbing light of a wavelength of 700-1200nm.

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